## **REMARKS**

Claims 1-36 are pending in the application, of which Claims 1, 6, 10, 15, 19, 24, 28 and 33 are independent claims. Claims 28-36 are newly added. Claims 1, 4-7, 10, 13, 14-16, 19, 22 and 23-25 have been rejected under 35 U.S.C. § 103(a) as being deemed unpatentable over Zolnowsky (U.S. Patent No. 5,826,081) in view of Sullivan (U.S. Patent No. 5,438,680). Claims 2, 3, 8, 9, 11, 12, 17, 18, 20, 21 and 26-27 have been rejected under 35 U.S.C. § 103(a) as being deemed unpatentable (U.S. Patent No. 6,324,162) over Zolnowsky (U.S. Patent No. 5,826,081) in view of Sullivan (U.S. Patent No. 5,438,680) and further in view of Najork *et al.* (U.S. Patent No. 6,377,934). The rejections are traversed.

Claims 10, 16, and 26 have been amended to correct typographical errors. Before discussing the cited references however, another brief review of the Applicant's disclosure may be helpful.

The Applicant claims a method for processing computing tasks in a multithreaded computing environment. A plurality of worker threads are defined, each working thread capable of processing a task. A task space is defined as a plurality of task queues. Each task queue is capable of queuing a plurality of tasks and associated with a respective worker thread. A task scheduler assigns a task amongst the task queues in an essentially random fashion.

Turning to the cited references, Zolnowsky discusses a method for scheduling threads in a multiprocessor system with one thread scheduled per processor. Runnable threads are stored in a dispatch queue associated with each processor and a high priority real time queue. (See Col. 7, lines 12-56; and Fig. 5.)

Sullivan discusses a method for scheduling processes in a multiprocessor system. (See Col. 3, line 64-Col 4, line 3; and Col. 6, lines 9-12.)

Najork discusses a method of queuing universal resource locators dependent on the host address. (See Col. 3, lines 55-67.)

In contrast to the cited references, the Applicant claims a method for scheduling tasks in a multithreaded system. The system includes a plurality of worker threads capable of processing a

task. Neither Zolnowsky nor Sullivan even discuss a task queue or associating a task queue with a respective worker thread. Furthermore, neither even discuss a multithreaded system or a task queue for use in a multithreaded system. Zolnowsky and Sullivan merely discuss scheduling threads or processes in a single-threaded multiprocessor system. Najork does not cure the deficiencies in the combination of Zolnowsky and Sullivan because the combination does not teach or suggest a task queue or associating a task queue with a respective worker thread.

Even in combination, Zolnowsky and Sullivan do not suggest the Applicant's claimed invention for defining a plurality of task queues and associating each task queue with a worker thread.

Patentably distinguishing claim language of independent Claims 1, 6, 19 and 24 reads, in pertinent part:

defining a plurality of task queues, each task queue capable of queuing a plurality of tasks;

associating each task queue with a respective worker thread;

In addition, patentably distinguishable claim language of independent Claims 10 and 15 reads, in pertinent part:

a plurality of task queues, each task queue capable of queuing a plurality of tasks and each task queue associated with a respective worker thread;

Claims 2-5 are dependent on Claim 1; Claims 7-9 are dependent on Claim 6; Claims 11-14 are dependent on Claim 10; Claims 16-18 are dependent on Claim 15; Claims 20-23 are dependent on Claim 19; Claims 25-27 are dependent on Claim 24; Claims 29-32 are dependent on Claim 28; and Claims 34-36 are dependent on Claim 33 respectively and thus include this limitation over the prior art. Accordingly, the present invention as now claimed is not suggested by the cited art. Reconsideration of the rejections under 35 U.S.C. §103(a) is respectively requested.

## **CONCLUSION**

In view of the above amendments and remarks, it is believed that all claims (claims 1-36) are in condition for allowance, and it is respectfully requested that the application be passed to issue. If the Examiner feels that a telephone conference would expedite prosecution of this case, the Examiner is invited to call the undersigned attorney.

Respectfully submitted,

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